

PO Facility Risk Assessment

Name(s) of Risk Team Members: R. Gill, K. Klaus, K. Kusche, R. Liegel, S. Shapiro, M. Zarcone	Point Value → Parameter ↓	1	2	3	4	5
Area/Facility Description Title: Material Handling Machinery	Occupancy or Use	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Area/Facility # (if applicable): PO-FRA-006						
Area/Facility Description: Physics Department general material handling machinery, cranes, hoists, forklifts, etc. in 510, 820 and 832	Severity	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
	Likelihood	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Date: May 19, 2005	Rev.#: 0					
Reason for Revision (if applicable):				Comments:		

			Risk with Controls in Place					Risk with Additional Controls in Place				
Physical Item or Activity	Hazard(s)	Control(s)	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Moving items with cranes	Being struck by an object, such as a tool falling on a worker from above	Training, daily crane inspections prior to use, PE crane maintenance, PPE, certified rigging equipment, Tier 1, yearly rigging inspections, load weights and center of gravity known prior to lift, procedures, qualified riggers if required, critical lift and engineered lift requirements and reviews, postings, work planning, load testing, barriers	4	5	2	40	Cranes are locked to prevent untrained, unauthorized personnel from using them. Department personnel are not allowed to perform critical lifts.	4	5	1	20	50%
Forklift use, including electric walk-behind	Being struck by an object, such as a falling load	Training, daily inspections, PPE, seat belts, Tier 1 inspections, PE inspections and maintenance, load weight and center of gravity known, work planning, postings, alarms, certified riggers available	3	4	3	36	Forklift use restricted to indoors; if needed outside, riggers are used.	3	4	2	24	33%

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Stationary hoists, manual or electric lifts	Being struck by an object, such as a falling load	Training, inspections prior to use, PE crane maintenance, PPE, certified rigging equipment, Tier 1, yearly rigging inspections, load weights and center of gravity known prior to lift, procedures, qualified riggers if required, critical lift and engineered lift requirements and reviews, postings, work planning, load testing, barriers	2	4	2	16						
Manual material handling (pallet jacks, barrel and equipment carts, etc.)	Being struck by an object, such as a falling load or tool	Training, certified equipment, PPE as required, limited to load carrying limit of equipment, postings, Tier 1, training, work planning, certified riggers if required, manual lift weight limit	4	3	3	36						
	Overexertion injuries caused by excessive lifting, pushing, pulling, holding, carrying	Training, certified equipment, PPE as required, limited to load carrying limit of equipment, postings, Tier 1, training, work planning, certified riggers if required, manual lift weight limit	4	3	4	48						
Miscellaneous rigging equipment use (come-alongs, lifting fixtures, a-frames, Johnson bars, skates, etc.)	Being struck by an object, such as a falling load or tool	Certified inspected equipment, training, work planning, engineering review and witnessed load tests, PPE as required, certified riggers as required, load weights and center of gravity known, postings labeling	3	4	3	36						
	Overexertion injuries caused by excessive lifting, pushing, pulling, holding, carrying	Certified inspected equipment, training, work planning, engineering review and witnessed load tests, PPE as required, certified riggers as required, load weights and center of gravity known, postings labeling	3	3	4	36						

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Further Description of Controls Added to Reduce Risk:												
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate				61 to 80 Substantial				81 or greater Intolerable	